IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-6 in accordance with the following:

 (Currently Amended) A wireless sensor incorporated wheel support bearing assembly ferto rotatably supporting a vehicle wheel relative to a vehicle body structure, which assembly comprisinges:

an outer member having an inner periphery formed with a plurality of raceways and adapted to be secured to the vehicle body structure through a knuckle, on which an inboard end of the outer periphery of the outer member is attached;

an inner member having raceways confronting with the raceways in the outer member; a plurality of rolling elements interposed between the raceways in the outer member and the raceways in the inner member that confront with each other;

a sensor section for detecting a target of detection;

a sensor signal transmitting section for transmitting by wireless a sensor signal outputted from the sensor section; and

an electric power receiving section forto receiveing by wirelessly an electric operating power for the sensor section and the sensor signal transmitting section,

wherein the knuckle is provided with at least an antenna in one or both of the sensor signal transmitting section and the electric power receiving section.

- 2. (Currently Amended) The wireless sensor incorporated wheel support bearing assembly as claimed in Cclaim 1, wherein one or both of the sensor signal transmitting section and the electric power receiving section are, in itstheir substantial entirety, arranged in the knuckle.
- 3. (Currently Amended) The wireless sensor incorporated wheel support bearing assembly as claimed in Cclaim 1, wherein the sensor signal transmitting section and the electric power receiving section are integrated together into a unitary component to define a transmitting

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and receiving unit, the transmitting and receiving unit being secured to the knuckle.

- 4. (Currently Amended) The wireless sensor incorporated wheel support bearing assembly as claimed in Colaim 1, wherein the sensor signal transmitting section, the electric power receiving section and the sensor section are integrated together into a unitary component to define a wireless sensor unit, the wireless sensor unit being secured to the knuckle.
- 5. (Currently Amended) The wireless sensor incorporated wheel support bearing assembly as claimed in Cclaim 1, wherein the sensor section comprises a revolution sensor including a pulsar ring and a magnetic sensor, and wherein

the pulsar ring is mounted on the inner member and the magnetic sensor of the revolution sensor unit, <u>and</u>

the sensor signal transmitting section and the electric power receiving section are integrated together into a unitary component to define a wireless sensor, the wireless sensor unit being secured to the knuckle.

6. (Currently Amended) The wireless sensor incorporated wheel support bearing assembly as claimed in Cclaim 5, further comprising an outer race of a constant velocity joint fitted to the inner member or provided as a component part of the inner member, wherein the pulsar ring is mounted on the outer race of the constant velocity joint.